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transformations of mechanics" by Zeldin, 157-159; "On the expression of the sum of any two determinants as a determinant of more dimensions" by Rice, 160-166; "A new type of integral expansion" by Wiener, 167-176; and "Note on Einstein's theory of gravitation" by Phillips, 177-190. In *Proc. Lond. M. S.*, new series, volume 20: "The group of the linear continuum" by Wiener, 329-346. In *Proc. Nat. A.*, volume 8, 1921: "A solution of the linear matrix equation of double multiplication" by Hitchcock, 78-83.

ARTICLES IN CURRENT PERIODICALS.

AMERICAN JOURNAL OF MATHEMATICS, volume 44, no. 1, January, 1922: "An arithmetical dual of Kummer's quartic surface" by E. T. Bell, 1-11; "Incidences of straight lines and plane algebraic curves and surfaces generated by them" by A. Emch, 12-19; "On the theorems of Gauss and Green" by V. C. Poor, 20-24; "An extension of the Sturm-Liouville expansion" by C. C. Camp, 25-53; "Conformal transformations of period n and groups generated by them" by H. Langman, 54-86.

L'ENSEIGNEMENT MATHÉMATIQUE, volume 22, nos. 3-4, published July, 1922: "Familles additives et fonctions additives d'ensembles abstraits" by M. Fréchet, 113-129; "Sur les foyers rationnels d'une courbe algébrique" by P. Appell, 129-132; "Sur les foyers rationnels des courbes planes" by E. Turrière, 133-135; "Sur les tractrices et les courbes équitangentes" by C. de Jans, 136-145; "Sur certaines identités géométriques et leur traduction algébrique" by P. C. Delens, 146-152; "Sur le déplacement d'un point dans l'espace à n dimensions. Géométrie du n -édre" by G. Tiercy, 152-167; "Sur les formules de Lorentz" by B. Niewenglowski, 167-169; "Applications géométriques de la crystallographie" (conclusion) by M. Winants, 170-194; "Déduction des dérivées de fonctions circulaires par la méthode géométrique des limites" by B. Petronievics, 195-208; "Déduction géométrique de l'expression pour le rayon de courbure" by J. M. Child and B. Petronievics, 209-214; "Camille Jordan (1838-1922)" by A. Buhl, 214-218; "Einstein au Collège de France" by R. Wavre, 219-222; "Bibliographie" and "Bulletin bibliographique," 228-248.

ISIS, volume 4, no. 2, 1922: "The teaching of the history of science" by G. Sarton, 225-249 ["What is the present status of the teaching of the history of science in European and American universities? The lists and announcements of courses which have been published in various journals, may give the reader a very misleading impression. For these lists are many and some are quite long, but most of it is mere bluff. For example, many such courses have been extemporized in America, but, with one exception (CAJORI), I do not know of any course delivered by a lecturer having the rank and emoluments of a professor and devoting himself exclusively to it. To be sure, some of these courses offered as a 'side show' by scholars whose main business is to study and to teach something totally different, may be very interesting. . . . We owe some of the best work in every field to the capricious efforts of *dilettanti*; but we can never depend upon them and we must of necessity expect the main advances in knowledge to be made by men whose sole duty is to make them and who give their every thought to it. . . . The *history of science* is a historical discipline; it is also a scientific discipline. The historian of science must have a sound knowledge of two sets of facts: historical facts and scientific facts. . . . Historical and scientific errors must be equally avoided, but many historical errors are only venial offences, while the scientific errors are deadly sins. The former, indeed, imply merely a misapprehension of the accessory circumstances, while the latter prove that the very substance of one's investigations has not been understood."]; "L'enseignement de la mécanique en France au XVII^e siècle" by P. Boutroux, 276-294; "The development of trigonometric methods down to the close of the XVth century. (With a general account of the methods of constructing tables of natural sines, down to our days)" by J. D. Bond, 295-323.

MATHEMATICA, volume 36, July, 1922: "Nouveaux triangles spéciaux" by J. Neuberg, 257-259 ["L'Index du Répertoire bibliographique des Sciences mathématiques contient la rubrique: *Triangles spéciaux*. a. Triangle isoscelé. b. Triangle équilatéral. c. Triangle rectangle. Il y manque évidemment la division: d. Autres triangles spéciaux. En effet, est nombreuse la liste des triangles particuliers que l'on rencontre dans la Géométrie récente du triangle; elle fournit de bons exercices et d'intéressants sujets d'étude."]; "Sur la vie moyenne d'une obligation" by A.

Claeys, 260-261; "Sur l'isopôle d'une droite par rapport à un triangle" by C. Servais, 262-268; "Sur l'équation $x^3 + px + q = 0$ " by M. Sterkens, 269-270; "Sur le point de Feuerbach" by P. de Lépiney, 271-274; "Remarques sur l' 'Arithmetique' de SIMON STEVIN" (continued) by H. Bosmans, 275-281; "Sur les points $\varphi, \varphi_a, \varphi_b, \varphi_c$ " by R. Deaux, 282-285, "Notes mathématiques," 286-291; Questions and Solutions, 291-304.

THE MONIST, volume 32, no. 1, January, 1922: "The relation of space and geometry to experience" by N. Wiener, 12-60—No. 2, April: "The relation of space and geometry to experience" by N. Wiener (continued), 200-247—No. 3, July: "The relation of space and geometry to experience" by N. Wiener (conclusion), 364-394.

NATURE, volume 110, July, 1922: Review by W. E. H. B. of C. Tweedie, *James Stirling* (Oxford, 1922), 111—August 12: "The elliptic logarithmic spiral" by H. S. Rowell, 214—August 26: Review of H. Malet, *Etude géométrique des transformations birationnelles et des courbes planes* (Paris, 1921), 276—September 2: Review of P. Humbert, *Introduction à l'étude des fonctions elliptiques* (Paris, 1922), 308.

THE OBSERVATORY, volume 45, August, 1922: "Herschel's world-view in the light of modern astronomy" by H. Macpherson, 254-261; "Jacobus Cornelius Kapteyn," 261-265; "From an Oxford note-book," 271-272 [Reminiscences of Kapteyn]—September: "Memorial to Sir Norman Lockyer," 277-280; "Flamsteed's letters to Richard Towneley" by J. L. E. Dreyer, 280-294; Review by H. Jeffreys of H. Weyl, *Space—Time—Matter* (London, 1922), 297-301.

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE U. S. A., volume 7, November, 1921: "On the approximate solutions in integers of a set of linear equations" by H. F. Blichfeldt, 317-319—December: "Group of isomorphisms of a transitive substitution group" by G. A. Miller, 325-328; "Einstein static fields admitting a group G_2 of continuous transformations into themselves" by L. P. Eisenhart, 328-334; "Geometric aspects of the Abelian modular functions of genus four (II)" by A. B. Coble, 334-338—Volume 8, January, 1922: "The Riemann geometry and its generalization" by L. P. Eisenhart and O. Veblen, 19-23; "Ricci's principal directions for a Riemann space and the Einstein theory" by L. P. Eisenhart, 24-26; "Note on the definition of a linear functional" by C. A. Fischer, 26-29—March: "On the relation of a continuous curve to its complementary domains in space of three dimensions" by R. L. Moore, 33-38—April: "A solution of the linear matrix equation by double multiplication" by F. L. Hitchcock, 78-83—June: "On the location of the roots of the derivative of a polynomial" by J. L. Walsh, 139-141—July: "Normal coordinates for the geometry of paths" by O. Veblen, 192-197; "Principal directions in a Riemannian space" by J. L. Synge, 198-203; "Principal directions in the Einstein solar field" by J. L. Synge, 204-207; "Fields of parallel vectors in the geometry of paths" by L. P. Eisenhart, 207-212—August: "Spaces with corresponding paths" by L. P. Eisenhart, 233-238; "Number of substitutions omitting at least one letter in a transitive group" by G. A. Miller, 238-240—September: "The meaning of rotation in the special theory of relativity" by P. Franklin, 265-268.

REVUE GÉNÉRALE DES SCIENCES, volume 33, July 15, 1922: "La vitesse-limite de la lumière et le finitisme" by B. Petronievics, 401-402—August 15-30: "J. C. Kapteyn" by C. H. Hins, 449-450—September 15-30: "Pour servir à l'histoire de la nomographie" by R. Soreau, 518-523.

SCIENCE, new series, volume 56, August 25, 1922: Review by G. A. Miller of C. J. Keyser, *Mathematical Philosophy* (New York, 1922), 229-230—September 1: "The algebraic method of balancing a chemical equation" by H. A. Curtis, 258-260—October 13: "The theory of numbers" by G. H. Hardy, 401-405 [From the address given at the Hull meeting of the British Association for the Advancement of Science, September, 1922]; "An unusual solitaire game" by L. E. Dickson, 418-419; Review by G. A. Miller of W. F. Osgood and W. C. Graustein, *Plane and Solid Analytic Geometry* (New York, 1921), 420-421; "The American Mathematical Society" by R. G. D. Richardson, 423 [Report of the summer meeting held at Rochester, September 7-8, 1922].

SCIENCE PROGRESS, volume 16, April, 1922: "Applied mathematics" by S. Brodetsky, 517-527 [Recent advances in relativity, etc.]; "The Einstein theory of relativity" by D. Laugherne-Thornton, 641-643—Volume 17, July: "Mathematics" by F. P. White, 1-12 [Recent advances]—October: "Mathematics" by F. P. White, 173-180 [Recent advances]; "Applied mathematics" by S. Brodetsky, 180-190 [Recent advances in relativity, etc.]; Review of L. E. Dickson, *First Course in the Theory of Equations* (New York, 1922), 328-329.

ZEITSCHRIFT FÜR MATHEMATISCHEM UND NATURWISSENSCHAFTLICHEN UNTERRICHT, vol. 52, nos. 11-12, November 30, 1921: "Ueber ein Verfahren zur Veranschaulichung der Konvergenz unendlicher Reihen" by E. Dintzl, 249-253; "Direkte Herleitung des relativistischen Dopplerprinzips und der zeitlichen Lorentztransformation aus den nichtrelativistischen Gleichungen Doppers" by H. Meurer, 254-257; "Beweis des pythagoreischen Lehrsatzes mit Hilfe des Satzes von Menelaus" by J. Salachowski, 257-258; "Ein Modell zu den Sätzen des Ceva und des Menelaos" by E. Lipken, 258-259; "Die Simpsonische Regel" by A. Witting, 259 [An especially simple derivation of the rule]; "Ueber drei stereometrische Aufgaben" by W. Gaedecke, 260-261; "Ein Nomogramm für die Zinsseszinsformel" by P. Hauck, 261-263; "Ueber die mathematischen Bezeichnungen im Unterricht" by W. Lietzmann, 266-267 [Synopsis of the recommendations of the (American) National Committee on Mathematical Requirements, concerning this topic]; "Bücherbesprechungen," 269-282—Volume 53, nos. 1-2, January 20, 1922: "Zur Entwicklung der mathematischen Erfindungsgabe" by P. Maenchen, 2-7; "Der Schenkel-Transversalsatz" by H. Dörrie, 8-14; "Herleitung der Lorentztransformation eines Längenabschnittes durch Vergleich der relativistischen mit den nichtrelativistischen Gleichungen des Dopplerprinzips" by H. Meurer, 15-17; "Winkel an Gleichlaufenden" by C. H. Tietjen, 17-18; "Die Winkelmessung des Artilleristen" by P. Lötzbeyer, 18-20; "Zur Konstruktion des Apollonischen Kreises" by E. Lipken, 20; "Dreikant und Polarkant" by C. Stengel, 21-22; "Zur Berechnung der Kugelfläche" by A. Czwalina, 22-23; "Der Krümmungskreis in einem Punkte einer Ellipse" by G. Diem, 23-25; "Aufgaben-Repertorium," 25-31; "Die Internationale Mathematische Unterrichtskommission" by W. Lietzmann, 31-33; "Die Mathematikerversammlung in Jena 1921" by W. Lietzmann, 34-35; "Bücherbesprechungen," 41-51—Nos. 3-4, March 15: "Die Erbteilungsaufgaben bei Muhammed ibn Musa Alchwarazmi" by H. Wieleitner, 57-67; "Die Spiegelung als primitiver Begriff im Unterricht" by H. Willers, 68-77; "Die Ermittlung der molekularen Größenordnung im Unterricht" by H. Hermann, 77-81; "Ein Paradoxon der Gravitation" by H. Teege, 81-84; "Eine einfache Wahrscheinlichkeitsaufgabe die auf die Zahl e führt" by W. Simons, 84-85; "Bücherbesprechungen," 87-95—Nos. 5-6, May 12: "Die Spiegelung als primitiver Begriff im Unterricht" (conclusion) by H. Willers, 109-119; "Verallgemeinerung der Cardanischen Formel" by K. Siemon, 120-126; "Die verschiedenen Methoden zur Lösung von Aufgaben der darstellenden Geometrie bei ungünstigen Lageverhältnissen" by A. Baruch, 126-133; "Die Cheopspyramide als Fundgrube mathematischer Schulaufgaben" by M. Zacharias, 133-135; "Aufgaben-Repertorium," 136-139; "Bücherbesprechungen," 146-150—Nos. 7-8, July 20: "Die Stellung der Mechanik zwischen Physik und Mathematik" by W. Lietzmann, 153-161; "Die verschiedenen Methoden zur Lösung von Aufgaben der darstellenden Geometrie bei ungünstigen Lageverhältnissen" (concluded) by A. Baruch, 161-168; "Ableitung der sphärisch trigonometrischen Formeln aus der darstellenden Geometrie" by A. Launer, 168-171; "Bandknoten" by W. Bastiné, 172-174; "Beitrag zur Behandlung der Sätze über die Winkel am Kreis" by W. König, 174-175; "Bücherbesprechungen," 183-189.

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CLUB ACTIVITIES.

THE GRINNELL COLLEGE MATHEMATICS CLUB, Grinnell, Ia. [1922, 78.]

The following meetings were held in 1921-1922:

September 22, 1921: Business meeting.

October 4: President's inaugural address by Robert Hannelly '23; "History of mathematical organization" by Professor R. B. McClenon.

October 18: "Trisection of an angle" by Elizabeth Pace '22.

November 1: "Applications of arithmetic" by Burton Jones '23; "Einstein, his life and work" by Margaret Divelbess '23.

November 15: "Report of the Committee on Mathematical Requirements" by Professor O. W. Albert; "Russian peasant method of multiplication" by Ruth Boyce '22.

December 6: "Vibrating strings" by Raymond Weigen '22.